

CLAIMS

It is claimed:

1. A support extension to which stage equipment may be attached, the support extension comprising:

a means for accepting the stage equipment

a means for coupling included in the means for accepting, the means for coupling including means for fastening the means for accepting to a rail.

2. The support extension of claim 1 wherein the means for fastening is rotationally activated.

3. The support extension of claim 1 wherein the means for accepting is constructed of one of a metal, resin or plastic.

4. The support extension of claim 1 wherein the means for accepting includes a means for receiving stage equipment.

5. The support extension of claim 1 wherein the means for accepting includes a means for receiving a safety pin from an attached stage equipment.

6. The support extension of claim 1 wherein the means for accepting is cylindrical and has a cross section that is one of round, square, hexagonal, triangular, pentagonal.

7. The support extension of claim 6 wherein the means for accepting includes means for receiving a wrench, a pliers or other tool to grasp the means for accepting.

8. The support extension of claim 1 wherein the means for accepting includes a means for engaging the means for fastening.
9. The support extension of claim 1 wherein the means for fastening comprises a butterfly bolt.
10. The support extension of claim 1 wherein the means for fastening comprises means for aligning the means for fastening in the rail.
11. The support extension of claim 10 wherein the means for aligning is rotationally activated.
12. A support extension to which stage equipment may be attached, the support extension comprising:
 - a body
 - a bolt coupled with the bodythe bolt to be coupled to a rail by rotating the body.
13. The support extension of claim 12 wherein the body is constructed of one of a metal, resin or plastic.
14. The support extension of claim 12 wherein the body includes a wide groove to assist in the attachment of lighting equipment and stage equipment.
15. The support extension of claim 12 wherein the pin body includes a small hole to receive a safety pin from an attached lighting equipment or stage equipment.

16. The support extension of claim 12 wherein the body is generally cylindrical.
17. The support extension of claim 16 wherein the body includes at least two notches to allow a wrench, a pliers or other tool to grasp the body.
18. The support extension of claim 12 wherein the body cavity includes screw threads complementary to screw threads included on a cylindrical portion of the bolt.
19. The support extension of claim 12 wherein the bolt comprises
- a head
 - a collar
 - a cylindrical portion.
20. The support extension of claim 19 wherein the collar is a shape that serves as a cam when rotated.
21. The support extension of claim 19 wherein the collar is a shape that serves as a cam when rotated such that the head become perpendicular to a channel opening in the rail, the body rotates.
22. The support extension of claim 19 wherein the cylindrical portion includes screw threads complementary to screw threads included in the body cavity.
23. A support pin to which lighting equipment and stage equipment may be attached, the support pin comprising:
- a pin body

a t-bolt coupled with the pin body

the support pin to be coupled to a rail by rotating the pin body.

24. The support pin of claim 23 wherein the pin body is generally cylindrical.
25. The support pin of claim 23 wherein the pin body is constructed of one of a metal, resin or plastic.
26. The support pin of claim 23 wherein the pin body includes a wide groove to assist in the attachment of lighting equipment and stage equipment.
27. The support pin of claim 23 wherein the pin body includes a small hole to receive a safety pin from an attached lighting equipment or stage equipment.
28. The support pin of claim 23 wherein the pin body includes at least two notches to allow a wrench, a pliers or other tool to grasp the pin body.
29. The support pin of claim 23 wherein the pin body cavity includes screw threads complementary to screw threads included on a cylindrical portion of the t-bolt.
30. The support pin of claim 23 wherein the t-bolt comprises
 - a head
 - a collar
 - a cylindrical portion.
31. The support pin of claim 30 wherein the collar is a shape that serves as a cam when rotated.

32. The support pin of claim 30 wherein the collar is a shape that serves as a cam when rotated such that the head become perpendicular to a channel opening in the rail, the pin body rotates.

33. The support pin of claim 30 wherein the cylindrical portion includes screw threads complementary to screw threads included in the pin body cavity.

34. A support pin to which lighting equipment and other stage equipment may be attached, the support pin comprising:

- a pin body

- a t-bolt to be fastened into a cavity in the pin body, the t-bolt including

- a head

- a collar

- a cylindrical portion

- the support pin to be attached to a rail by rotating the pin body.

35. The support pin of claim 34 wherein the support pin is attachable to the rail by placing the head of the t-bolt into a channel in the rail and rotating the pin body, the rotating causing the cylindrical portion to be drawn into a receiving cavity in the pin body as the head of the t-bolt becomes flush with the underside of lips of the channel in the rail while the pin body is secured against the top of the rail.

36. The support pin of claim 35 further comprising a washer that fits onto the cylindrical portion of the t-bolt and sits between the top of the rail and the pin body when the support pin is attached to the rail, the washer to enhance the attachment of the support pin to the rail.

37. A method of supporting stage equipment comprising:

coupling a rail to a wall

placing a support extension into a channel in the rail

rotating the support extension to quickly easily secure the support extension to the rail

attaching a stage apparatus to the support pin.

38. The method of claim 37 wherein the support extension is the support extension of claim 12.

39. The method of claim 37 wherein the support extension is the support pin of claim 23.

40. The method of claim 37 wherein the support extension is the support pin of claim 34.